

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings of claims:

Listing of Claims:

1. (Currently Amended) A method of ~~bonding a ceramic material to a manufacturing tool~~ comprising:

 ~~providing a de-bondable adhesive composition consisting of one or more novolac resins and one or more solvents, wherein the one or more solvents has a boiling point in the range of about 30°C to about 80°C; placing an~~ the adhesive composition onto a surface of ~~a the~~ ceramic material, the adhesive composition comprising one or more novolac resins and one or more solvents, the one or more solvents having a boiling point in a range of about 30°C to about 80°C;

 contacting ~~a the~~ manufacturing tool with the adhesive composition on the surface of the ceramic material such that the adhesive composition contacts both the tool and the ceramic material bond together; and

 ~~subjecting the adhesive composition located between the tool and the ceramic material to conditions effective to substantially removing~~ remove the one or more solvents from the adhesive; ~~wherein the ceramic material is used to form sliders for hard disk drive applications~~ composition by subjecting the adhesive composition to at least a partial vacuum without substantially heating the adhesive composition.
2. (Currently Amended) The method according to claim 1, wherein the ~~resist adhesive resin is~~ one or more novolac resins comprise ~~present in an amount of~~ about 30 wt.% to about 80 wt.% of the adhesive composition.

3. (Currently Amended) The method according to claim 1, wherein the ~~resist-adhesive resin is~~ one or more novalac resins comprise ~~present in an amount of~~ about 40 wt.% to about 70 wt.% of the adhesive composition.

4. (Currently Amended) The method according to claim 1, wherein the ~~resist-adhesive resin is~~ one or more novalac resins comprise ~~present in an amount of~~ about 55 wt.% to about 65 wt.% of the adhesive composition.

5. (Original) The method according to claim 1, wherein the adhesive composition excludes solvents having boiling points above about 80°C.

6. (Canceled)

7. (Canceled)

8. (Currently Amended) The method according to claim 1, wherein the one or more solvents are ~~solvent is~~ selected from aliphatic and aromatic hydrocarbons, alcohols, ethers, ketones, esters, alcohol esters, ether alcohols, ether esters, ketone alcohols, ketone ethers, ketone esters, amides, nitriles, or a combination thereof.

9. (Currently Amended) The method according to claim 8 1, wherein the one or more solvents are ~~solvent is~~ selected from acetone, isopropyl alcohol, dichloromethane, chloroform, tetrahydrofuran, ethyl acetate, methylethylketone or a combination thereof.

10. (Currently Amended) The method according to claim 9 1, wherein the one or more solvents consist of ~~solvent is~~ acetone.

11. (Canceled)

12. (Canceled)
13. (Original) The method according to claim 1, wherein the manufacturing tool is formed from a material selected from thermoplastic or thermoset polymer, metal, ceramic, glass, or a combination thereof.
14. (Currently Amended) The method according to claim 12 37, wherein the adhesive composition is placed on the air-bearing surface side ~~of said ceramic material~~.
15. (Currently Amended) In a method of manufacturing a slider for a hard disk drive, wherein ~~an adhesive is used to bond~~ a ceramic material is bonded to a manufacturing tool, the improvement ~~which comprises~~ comprising:
- bonding the ceramic material to the manufacturing tool using an employing a de-bondable adhesive composition consisting of one or more novolac resins and one or more solvents, wherein the one or more solvents having has a boiling point in the range of about 30°C to about 70°C, the bonding comprising applying the adhesive composition between the ceramic material and the manufacturing tool and removing the one or more solvents by subjecting the adhesive composition to at least a partial vacuum without substantially heating the adhesive composition.
16. (Canceled)
17. (Currently Amended) The method according to claim 15, wherein the one or more solvents are ~~solvent is~~ selected from acetone, isopropyl alcohol, dichloromethane, chloroform, tetrahydrofuran, ethyl acetate, methylethylketone or a combination thereof.
18. (Currently Amended) The method according to claim 15, wherein the one or more solvents consist of ~~solvent is~~ acetone.

19. (Currently Amended) A method of ~~producing an adhesive composition having improved adhesive characteristics for use in bonding a ceramic material to a manufacturing tool~~ comprising:

adding one or more solvents having boiling points in a range of about 30° C to about 70° to one or more novolac resins to form an adhesive composition; ~~wherein the one or more solvents has a boiling point in the range of about 30° C to about 70° C, in a manner sufficient to produce said adhesive composition with improved adhesive characteristics, wherein said composition consists of one or more novolac resins and one or more solvents~~

applying the adhesive composition between a first surface of a manufacturing tool and an air bearing surface of a ceramic material; and

subjecting the adhesive composition to vacuum conditions sufficient to substantially remove the one or more solvents without substantially heating the adhesive composition.

20. (Currently Amended) The method according to claim 19, wherein the ~~resist adhesive resin composition comprises the one or more novolac resins~~ is present in an amount within a range of about 30 wt.% to about 80 wt.%.

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Currently Amended) The method according to claim 19, wherein the one or more solvents are solvent ~~is~~ selected from aliphatic and aromatic hydrocarbons, alcohols, ethers, ketones,

esters, alcohol esters, ether alcohols, ether esters, ketone alcohols, ketone ethers, ketone esters, amides, nitriles, or a combination thereof.

25. (Currently Amended) The method according to claim ~~24~~ 19, wherein the one or more solvents are ~~solvent is~~ selected from acetone, dichloromethane, chloroform, tetrahydrofuran, methylethylketone or a combination thereof.

26. (Currently Amended) The method according to claim ~~25~~ 19, wherein the one or more solvents consist of ~~solvent is~~ acetone.

27. (Withdrawn) An adhesive composition for use in the manufacture of sliders for hard disk drive applications, comprising a resist adhesive resin and a solvent, wherein the solvent has a boiling point in the range of about 30°C to about 80°C.

28. (Withdrawn) The adhesive composition according to claim 27, wherein the resin is selected from novolac resins, poly(ethylene-co-vinylalcohol), poly(2-hydroxyethylmethacrylate), cellulose polymers, or a combination thereof.

29. (Canceled)

30. (Withdrawn) The adhesive composition according to claim 27, wherein the solvent is selected from aliphatic and aromatic hydrocarbons, alcohols, ethers, ketones, esters, alcohol esters, ether alcohols, ether esters, ketone alcohols, ketone ethers, ketone esters, amides, nitriles, or a combination thereof.

31. (Withdrawn) The method according to claim 30, wherein the solvent is selected from acetone, isopropyl alcohol, dichloromethane, chloroform, tetrahydrofuran, ethyl acetate, methylethylketone or a combination thereof.

32. (Withdrawn) The adhesive composition according to claim 30, wherein the solvent is acetone.

33. (Withdrawn) The adhesive composition according to claim 27, wherein the solvent has a boiling point in the range of about 30°C to about 70°C.

34. (Withdrawn) The adhesive composition according to claim 27, wherein the adhesive composition excludes solvents having boiling points above about 80°C.

35. (Previously Presented) The method of claim 19, wherein use of the improved adhesive composition results in an increase in yield of bonding efficiency over a resist composition that includes a novolac resin and a photosensitizer.

36. (Previously Presented) The method of claim 35, wherein the increase in yield is about 75% or more.

37. (New) The method of claim 1, further comprising: forming one or more sliders for use in a hard disk drive from the ceramic material, the sliders each having an air bearing surface side, the forming comprising one or more of grinding, cutting, lapping, and row parting operations.

38. (New) The method of claim 37, further comprising: de-bonding the formed slider from the manufacturing tool by reintroducing the one or more solvents to the adhesive composition between the manufacturing tool and the slider.